

Forest Stand Improvement

Conservation Practice Job Sheet

666

Landowner _____ County _____ Tract Number _____

Field no(s) or Stand Designation _____ Total Acres _____ Planner _____

Purpose (check all that apply)	
<input type="checkbox"/> Increase quantity and quality of forest products or ecosystem services	<input type="checkbox"/> Achieve or maintain desired native understory plant communities for special forest products, grazing or browsing
<input type="checkbox"/> Timely harvest of forest products	<input type="checkbox"/> Improve visual quality
<input type="checkbox"/> Development of renewable energy systems	<input type="checkbox"/> Improve recreation values
<input type="checkbox"/> Initiate forest stand regeneration	<input type="checkbox"/> Improve wildlife habitat
<input type="checkbox"/> Reduce wildfire risk and hazard	<input type="checkbox"/> Alter water yield
<input type="checkbox"/> Improve forest health by reducing the potential of damage from pests and moisture stress	<input type="checkbox"/> Increase pollinator habitat
<input type="checkbox"/> Restore natural plant communities	<input type="checkbox"/> Increase carbon storage in selected trees

If the purpose is timely harvest of forest products, check the sustainable harvest regeneration strategy.

<input type="checkbox"/> Uneven aged management system: <input type="checkbox"/> Single-tree selection <input type="checkbox"/> Group selection <input type="checkbox"/> Coppice <input type="checkbox"/> Other, explain: _____	<input type="checkbox"/> Even-aged management system: <input type="checkbox"/> Clear-cut <input type="checkbox"/> Seed-tree <input type="checkbox"/> Shelterwood <input type="checkbox"/> Other, explain: _____
<input type="checkbox"/> Check here if thinning only (no regeneration planned at this time).	

Forest Inventory (check only those that apply)	
Woodland, Forest or Riparian Forest Buffer (if RFP also complete separate RFB section below)	
Inventory Method (attach inventory form) Check which inventory method will be used (see box to the right). For below, use Woodland Planning Worksheet MN-ECS-012 or another suitable inventory form. Fill-in only those that apply. Attach inventory form.	
<input type="checkbox"/> Fixed area plot <input type="checkbox"/> Point sampling <input type="checkbox"/> Crop Tree inventory <input type="checkbox"/> Zigzag Transect	
Stand Characteristics Before Treatment	Stand Characteristics (desired future condition)
<input type="checkbox"/> Stocking <input type="checkbox"/> Crop trees/ac _____ <input type="checkbox"/> Basal area/ac _____ <input type="checkbox"/> Spacing (e.g. 8 x 8) _____ (for even-age mgt) <input type="checkbox"/> Density <input type="checkbox"/> Crop Trees/ac _____ or <input type="checkbox"/> Basal Area/ac _____ <input type="checkbox"/> Site Index Species: _____; SI _____ Species: _____; SI _____ Species: _____; SI _____ <input type="checkbox"/> Size Class Distribution (usually 2" divisions, note size of any old growth trees) Species: _____; Size class division _____ Species: _____; Size class division _____ Species: _____; Size class division _____ Old Growth: _____	<input type="checkbox"/> Stocking <input type="checkbox"/> Crop trees/ac _____ <input type="checkbox"/> Basal area/ac _____ <input type="checkbox"/> Spacing (e.g. 8 x 8) _____ (for even-age mgt) <input type="checkbox"/> Density <input type="checkbox"/> Crop Trees/ac _____ or <input type="checkbox"/> Basal Area/ac _____ <input type="checkbox"/> Site Index (usually not expected to change within a species) Species: _____; SI _____ Species: _____; SI _____ Species: _____; SI _____ <input type="checkbox"/> Size Class Distribution (usually 2" divisions, note size of any old growth trees) Species: _____; Size class division _____ Species: _____; Size class division _____ Species: _____; Size class division _____ Notes: _____
Riparian Forest Buffer Length: <input type="checkbox"/> Single side _____ ft. <input type="checkbox"/> Double side: <input type="checkbox"/> Left (looking north or east) _____ ft. <input type="checkbox"/> Right (looking north or east) _____ ft.	Riparian Forest Buffer Width: Minimum width _____ ft. Maximum width _____ ft. Average width _____ ft.
Explain the treatment of slash and other debris to reduce risk of wildfires, and insect or disease infestations: _____	

Explanation of purposes		
<p>If the purpose is to develop renewable energy systems, explain the bioenergy intensity (removal amount) and planned frequency of removals.</p>		
<p>If the purpose is to reduce wildfire risk and hazard, check which method will be used. Check all that apply.</p> <p> <input type="checkbox"/> Reduce stocking rates <input type="checkbox"/> Alter spatial arrangement <input type="checkbox"/> Eliminate species with high volatility <input type="checkbox"/> Remove ladder fuels <input type="checkbox"/> Further treatment or elimination of slash accumulations next to roads, landings and trails, explain: </p>		
<p>If the purpose is wildlife habitat improvement, enter # of leave logs, check if riparian area, list non-commercial trees and shrubs to retain.</p> <div style="display: flex; justify-content: space-between;"> <div> <p>Bark-on Leave logs (minimum of 2 per acre)</p> <p>Snags (minimum of 4, cavity or potential cavity trees or downed woody debris >12 "diameter)</p> </div> <div> <p># leave logs _____</p> <p># snags _____</p> </div> </div> <p> <input type="checkbox"/> Riparian area (minimum of 4 leave logs per acre) # leave logs _____ List non-commercial trees and/or shrubs that will be retained: </p> <p>Put location of feeding sites, pre-existing snags and leave logs, on an attached map.</p>		
<p>If the purpose is to increase carbon storage in selected trees:</p> <p><input type="checkbox"/> Explain how leave trees were selected: references, journals, site index, ecological site classification, etc.</p> <p><input type="checkbox"/> Explain the stocking guidelines used: published guidelines, references, etc.</p> <p><input type="checkbox"/> Note best management practices to be used for protecting soils, organic matter and soil carbon sources.</p>		
Soils Information		
<p>Attach map and rating summaries from Web Soil Survey Suitabilities and Limitations Categories: Harvest Equipment Operability, Soil Rutting Hazard and/or Erosion Hazard for off-road or off-trail under the Land Management tab. Add rows as necessary.</p>		
County:		
Soil Map Unit (SMU) or Symbol (MUSYM)	Suitabilities and Limitations Category	Rating
Layout		
<p>Acres of treatment area:</p> <p>Method of Treatment (check all that apply)</p> <p> <input type="checkbox"/> Mechanical* <input type="checkbox"/> Chemical** <input type="checkbox"/> Mechanical and Chemical*** <input type="checkbox"/> Prescribed Burning (use standard 338) </p> <p>*Attach plan with specific equipment and estimated hours of operation.</p> <p>**Attach plan with specific chemical(s), amount used (application rate) and application equipment.</p>	<p>Plant establishment if recommended (Use standard 612)</p> <p>Acres of treatment area:</p> <p>Method of establishment</p> <p> <input type="checkbox"/> Hand Planting <input type="checkbox"/> Machine Planting <input type="checkbox"/> Natural Regeneration </p> <p>Site Preparation if recommended (Use standard 490)</p> <p> <input type="checkbox"/> Mechanical <input type="checkbox"/> Chemical <input type="checkbox"/> Mechanical and Chemical <input type="checkbox"/> Prescribed Burning </p>	
Supplemental Practices (check all that apply)		
<p> <input type="checkbox"/> Forest Trails and Landings (655) <input type="checkbox"/> Firebreak (394) <input type="checkbox"/> Access Control (472) <input type="checkbox"/> Tree/Shrub Establishment (612) <input type="checkbox"/> Integrated Pest Management (595) <input type="checkbox"/> Wetland Wildlife Habitat Management (644) <input type="checkbox"/> Other (explain) </p>	<p> <input type="checkbox"/> Access Road (560) <input type="checkbox"/> Prescribed Burning (338) <input type="checkbox"/> Tree/Shrub Site Preparation (490) <input type="checkbox"/> Herbaceous Weed Control (314) <input type="checkbox"/> Upland Wildlife Habitat Management (645) <input type="checkbox"/> Restoration and Management of Rare and Declining Habitats (643) </p>	

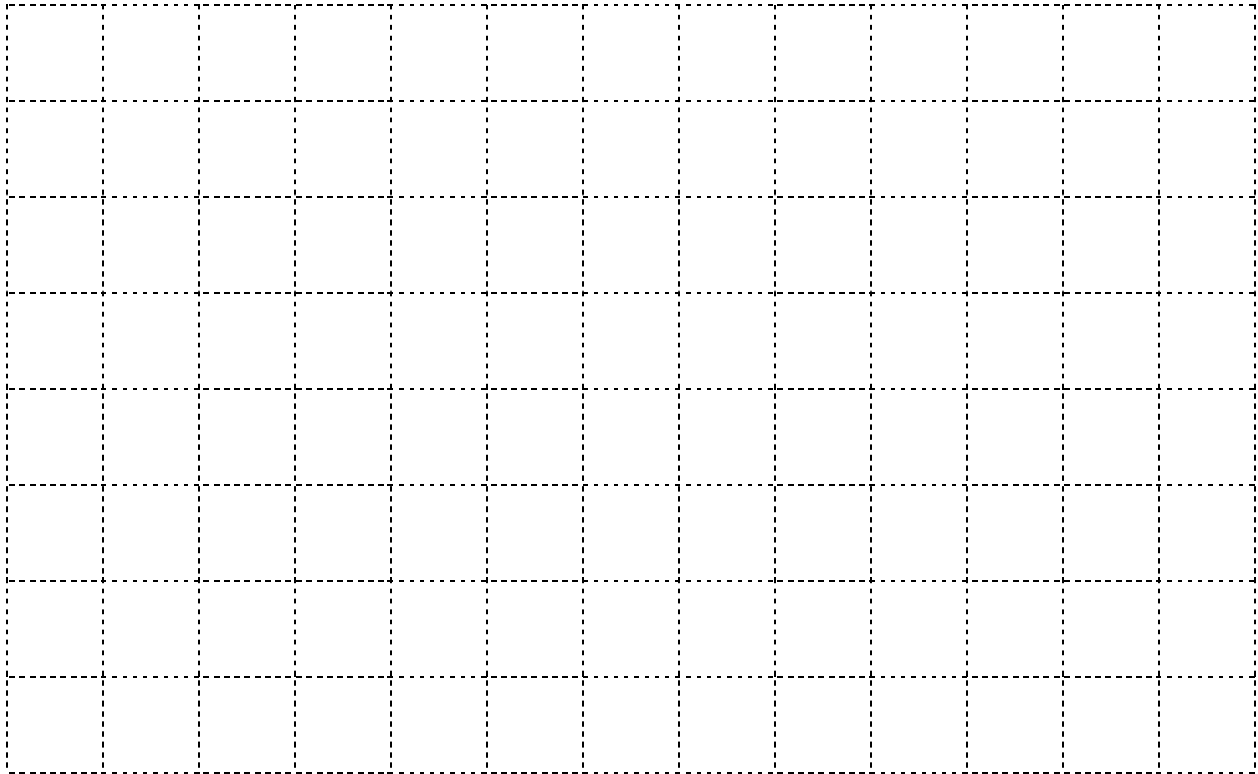
<p>List of desirable trees (check all that apply) Add type as necessary; e.g. Ash: <u>Black</u>, <u>Green</u></p> <p><input type="checkbox"/> Ash, _____</p> <p><input type="checkbox"/> Aspen, _____</p> <p><input type="checkbox"/> Basswood, American</p> <p><input type="checkbox"/> Birch, _____</p> <p><input type="checkbox"/> Cedar, Northern White (Arborvitae)</p> <p><input type="checkbox"/> Cherry, Black</p> <p><input type="checkbox"/> Cottonwood, Eastern</p> <p><input type="checkbox"/> Fir, _____</p> <p><input type="checkbox"/> Hackberry, Common</p> <p><input type="checkbox"/> Hickory, _____</p> <p><input type="checkbox"/> Kentucky Coffeetree</p> <p><input type="checkbox"/> Maple, _____</p> <p><input type="checkbox"/> Oak, _____</p> <p><input type="checkbox"/> Pine, _____</p> <p><input type="checkbox"/> Poplar, _____</p> <p><input type="checkbox"/> Spruce, _____</p> <p><input type="checkbox"/> Tamarack or Larch</p> <p><input type="checkbox"/> Walnut, Black</p> <p><input type="checkbox"/> Willow, _____</p> <p><input type="checkbox"/> Other: list below</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>List of desirable small trees and shrubs (check all that apply) Add type as necessary; e.g. Dogwood: <u>Red-osier</u>, <u>Gray</u>, <u>Silky</u></p> <p><input type="checkbox"/> Cherry or Plum, _____</p> <p><input type="checkbox"/> Chokeberry, _____</p> <p><input type="checkbox"/> Chokecherry, _____</p> <p><input type="checkbox"/> Crabapple, _____</p> <p><input type="checkbox"/> Dogwood, _____</p> <p><input type="checkbox"/> Elderberry, _____</p> <p><input type="checkbox"/> Hawthorn, _____</p> <p><input type="checkbox"/> Hazel, _____</p> <p><input type="checkbox"/> Hawthorn, _____</p> <p><input type="checkbox"/> Ninebark, Common</p> <p><input type="checkbox"/> Serviceberry, _____</p> <p><input type="checkbox"/> Viburnum, _____</p> <p><input type="checkbox"/> Other: list below</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p>Additional location and layout requirements:</p>	

<p>Operation and Maintenance</p> <p><i>The treated site must be inspected periodically and protected from damage so desired future conditions are achieved. If establishment or regeneration was initiated, replace dead or dying tree/shrub stock and continue control of competing vegetation to allow proper establishment. Periodic harvesting of trees and shrubs may be scheduled to maintain the health and vigor of stands. Keep a variety of dead and dying trees for cavity nesting birds and a source of large woody debris in aquatic habitats. Refer to the operation and maintenance section of the Forest Stand Improvement practice and specifications for more information. Additional requirements:</i></p>
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Forest Stand Improvement – Job Sheet Sketch

Attach an aerial view of the practice with important information labeled; or use this sheet to sketch the practice area with relevant information, including complementary practices planned, and additional specifications as necessary.

Scale 1"= _____ ft. (NA indicates sketch not to scale: grid size=1/2" by 1/2")



Additional Specifications and Notes (including assessment for harvesting products):

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